With the compliments of the author
E.W. Brandes.
MAPS

HOST INDEX OF DISEASES OF ECONOMIC PLANTS IN THE PHILIPPINES

By Otto A. Reinking

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No phase of scientific endeavor has yielded more direct or more valuable applications to practical agriculture than has the study of plant pathology. In connection with a general appeal to foreign scientists regarding the value of co-operation with a tropical biological station, it is important that the science of plant pathology be given the degree of emphasis which it justly deserves. This seems particularly necessary since in certain articles on tropical phytopathology the number and destructiveness of the diseases of tropical plants have been greatly underestimated.[1] An entirely erroneous impression is created by such articles. All of the groups of fungi present in temperate regions are represented in the tropics, and extremely destructive diseases are produced by some members of each group. Indeed, it may be stated with certainty that plant diseases are fully as numerous and destructive in the tropics as they are in the United States or in other temperate-zone countries. Perhaps the best method of showing the prevalence of fungous and bacterial diseases is to present a host index giving the organisms that attack economic plants in the Philippines. Such an index is presented on the pages which follow. In addition to known parasitic forms, saprophytic organisms have been included, since further study may show that some of the latter also may produce disease or may be perfect stages of parasitic forms. The list includes many species never before cited as appearing on economic plants in the Philippines. This host index should suggest immediately the great opportunities which lie before the investigator in tropical plant pathology. Although preliminary studies have been made upon most of the diseases here listed,[2] there is great need of work on nearly every one of these diseases. It seems to the writer that a young investigator could very profitably spend one or two years of graduate study at a tropical station, such as the College of Agriculture of the Philippines. There appears to be little doubt that he would acquire more in knowledge and experience than he could possibly obtain during an equal period of time in the United States or in Europe.

HOST INDEX

Abelmoschus esculentus (Linn.) Moench (*Hibiscus esculentus* Linn.) Okra, gumbo.

Cercospora hibisci Tracy et Earle. Leaf spot.

Gibberella saubinetii (Went.) Sacc. On dead stems.

Agave cantala Roxb. Maguey.

Diplodia agaves Niessl. Dead leaves.

Ananas comosus (Linn.) Merr. (*A. sativus* Schultes f.). Pineapple.

Asterinella stuhlmanni (P. Henn.) Theiss. Leaf spot.

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1 Westerdijk, Johanna, Phytopathology in the tropics. Ann. Missouri Bot. Garden 2: 307-313. 1915.

2 Reinking, Otto A., Philippine economic-plant diseases. Philippine Jour.Sci., Sec. A, 13: 165-274. *Pl. 1-22., fig. 1-43.* 1918.

Diplodia ananassae Sacc. On dead leaves.
Lembosia bromeliacearum Rehm. On dead leaves.
Sooty mold.
Steirochaete ananassae Sacc. On dead leaves.
Andropogon citratus D. C. Tanglad. Paja de Meca. Lemon grass.
Puccinia citrata Syd. Rust.
Andropogon sorghum Brot. (*Sorghum vulgare* Pers.). Sorghums, kaffirs, milos.
Coniosporium sorghi Sacc. On dead stalks.
Didymosphaeria anisomera Sacc. On dead and dying leaves.
Fumago vagans Pers. On dead leaves.
Helminthosporium caryopsidum Sacc. Grain mold.
Phyllachora sorghi v Höhnel. Leaf spot.
Puccinia purpurea Cke. Rust.
Sooty mold.
Ustilago sorghi (Lk.) Pass. Smut.
Annonaceae.
Auricularia mesenterica Fr. On dead branches.
Annona muricata Linn. Soursop, guanabano.
Auricularia polytricha Mtg. On dead branches.
Corticium salmonicolor B. et Br. Pink disease.
Phyllosticta insularum Sacc. Leaf spot.
Annona squamosa Linn. Ates.
Corticium salmonicolor B. et Br. Pink disease.
Polyporus rugulosus Lév. On dead wood.
Antidesma bunius (L.) Spreng. Bignay.
Aithaloderma clavatisporum Syd. Black mold on leaves.
Diatrype polygoneia Rehm var. *strebli* Rehm. On dead branches.
Hymenochaeta pavonia Pat. On dead branches.
Nummularia anthracodes (Fr.) Cke. On dead branches.
Apium graveolens Linn. Celery.
Cercospora apii Fr. Leaf blight.
Arachis hypogaea Linn. Peanut, mani.
Sclerotium. Stem and root rot.
Septogloeum arachidis Rac. Leaf spot.
Areca catechu Linn. Bunga, betel palm.
Anthostomella arecae Rehm. On dead stipes.
Colletotrichum arecae Syd. On dead sheaths.
Diplodia arecina Sacc. On dead leaves.
Elfvingia tornata (Pers.) Murr. On dead trunk.
Eutypella rehmiana (P. Henn. et Nym.) v Höhnel. On dead stems.
Exosporium hypoxyloidea Syd. Leaf spot.
Exosporium pulchellum Sacc. Leaf spot.
Ganoderma cupreum (Fr.) Bres. On dead trunk.
Ganoderma tornatum (Pers.) Bres. On dead trunk.
Gloeosporium catechu Syd. On dead trunk.
Gloeosporium palmarum Oud. On dead leaf sheaths.
Guignardia arecae Sacc. On dead leaves.
Peroneutypella arecae Syd. On dead parts.

Pestalozzia palmarum Cke. Leaf spot.
Phellostroma hypoxyloides Syd. On dead parts.
Phomopsis arecae Syd. On dead petiole and rachis.
Phomopsis palmicola (Wint.) Sacc. On dead leaves.
Polyporus rugulosus Lév. On dead trunk.
Schizophyllum commune Fr. On dead leaves.
Zygosporium oscheoides Mont. On dead leaf sheaths.

Artocarpus communis Forst. (*A. incisa* Linn. f.). Breadfruit.
Cercospora artocarpi Syd. Leaf spot.
Cycloderma depressum Pat. On dead trunk.
Diplodia ariocarpi Sacc. On dead branches and leaves.
Geaster tonkinensis Pat. On dead trunk.
Marchalia constellata (B. et Br.) Sacc. Leaf spot.
Rhizopus ariocarpi (B. et Br.) Rac. Inflorescence rot.

Artocarpus integra (Raderm.) Merr. (*A. integrifolia* Linn. f.) Jack fruit, nangca.
Corticium salmonicolor B. et Br. Pink disease.
Dichotomella areolata Sacc. On dead leaves.
Diplodia artocarpina Sacc. On dead leaves.
Rhizopus artocarpi (B. et Br.) Rac. Inflorescence rot.

Bambusa spinosa Roxb. (*Bambusa blumeana* Schultes.) Spiny bamboo.
Acanthostigma bambusae v Höhnel. On dead culms.
Anthostomella mirabilis (B. et Br.) v Höhnel. On dead culms.
Apiospora apiospora (Dur. et Mont.) v Höhnel var. *minor* Berl. et Sacc. On dead culms.
Apiosporella aberrans Syd. On dead culms.
Astrosphaeriella fusispora Syd. On dead culms.
Cenangium blumeanum Rehm. On dead culms.
Ceratosphaeria philippinarum Rehm. On dead sheaths.
Coniosporium circumscissum (B. et Br.) Sacc. On dead sheaths.
Cryptospora bambusae Speg. var. *bakeriana* Rehm. On dead culms.
Cryptospora philippinensis Rehm. On dead culms.
Didymosphaeria blumeanae Rehm. On dead culms.
Eutypa bambusina Penz. et Sacc. On dead culms.
Exarmidium blumeanum (Rehm) Theiss. et Syd. On dead culms.
Favolus spathulatus (Jungh.) Pat. On dead culms.
Fusarium calceum Sacc. On dead culms.
Ganoderma lucidum (Leyn.) Pat. var. *bambusae* Pat. On dead culms.
Guepiniopsis spathularius (Schw.) Pat. On dead culms.
Guignardia blumeanae (Sacc.) Yates. On leaves.
Helminthosporium blumeanum Sacc. On leaves.
Hypoxylon culmorum Cke. var. *bambusae-blumeanae* Rehm. On dead culms.
Hypoxylon disjunctum Rehm. On dead culms.
Hypoxylon fulvo-ochraceum Rehm. On dead culms.
Hypoxylon haematostroma Mont. On dead culms.
Lasiosphaeria mollis Rehm. On dead culms.
Lentinus exilis Kl. On dead culms.
Lenzites platyphylla Lév. On dead culms.
Lenzites tenuis Berk. On dead culms.

Linospora seriata (Syd.) Rehm. On dead culms.
Malmeomyces pulchellus Starb. On dead culms.
Manilaea bambusina Syd. On dead culms.
Melanographium splendiosporium Sacc. On rotting culms.
Nummularia reyesiana Rehm. On dead culms.
Ophionectria erinacea Rehm. Leaf spot.
Phyllachora bambusae (Rabh.) Sacc. Leaf spot.
Phyllachora orbicula Rehm. Leaf spot.
Physalospora bambusae (Rabh.) Sacc. On dead culms.
Polyporus anebus Berk. On dead culms.
Polyporus obtectans Berk. On dead culms.
Polyporus rigidus Lév. On dead culms.
Polyporus rugulosus Lév. On dead culms.
Polyporus sanguineus Linn. On dead culms.
Rhopographus blumeanus Rehm. On dead culms.
Rhopographella reyesiana Rehm. On dead culms.
Rosellinia calami P. Henn. On dead culms.
Schizophyllum commune Fr. On dead culms.
Schirria bambusiana Penz. et Sacc. On dead culms.
Scirrhodothis bambusina (Penz. et Sacc.) Theiss et Syd. On dead culms. Shoot rot.
Tremella bambusina Sacc. On dead culms.
Trichonectria bambusicola Rehm. Leaf spot.

Bambusa vulgaris Schrad. Kawayan-kiling.
Amphisphaeria bambusae Trav. On dead culms.
Anthostomella mirabilis (B. et Br.) v Höhnel. On dead culms.
Anthostomella mirabilis (B. et Br.) v Höhnel var. *obtecta* Rehm. On dead culms.
Apiospora apiospora (Dur. & Mont.) v. Höhnel. On dead culms.
Botryosphaeria oblongata Sacc. On culms.
Didymosphaeria striatula Penz. et Sacc. On dead culms.
Erinella setulosa Sacc. On leaves.
Ganoderma lucidum (Leyn.) Pat. On dead culms.
Guepiniopsis spathularius (Schw.) Pat. On living culm.
Massarinula bambusicola Rehm. On dead culms.
Nitschkea bambusarum Rehm. On dead culms.
Physalospora peribambusina Rehm. On dead culms.
Polyporus fuligo B. et Br. On dead culms.
Schizophyllum commune Fr. On dead culms.
Sclerotinia nervisequia Schroet. var. *bambusacea* Rehm. On dead culms.

Beta vulgaris Linn. Chard.
Cercospora beticola Sacc. Leaf spot.

Bixa orellana Linn. Achuete.
Auricularia polytricha Mtg. On dead branches.

Brassica oleracea Linn. Cabbage.
Alternaria brassicae (Berk.) Sacc. Leaf spot.
Heterodera radicicola Greef et Müller. Nematode root galls.
Pseudomonas campestris (Pammel) Erw. Smith. Black rot.

Brassica pekinensis (Lour.) Skeels. Pechay.
Cercospora armoraciae Sacc. Leaf spot.
Cercospora brassicicola P. Henn. Leaf spot.
Cajanus cajan (L.) Millsp. (*Cajanus indicus* Spreng.) Pigeon pea.
Guignardia manihoti Sacc. var. *cajani* Sacc. On dead stems.
Heterochaete tenuicu'a (Lév.) Pat. On dead stems.
Leptothyrium bakerianum Sacc. On dead stems.
Calamus spp. Rattan.
Actinothyrium maculosum Sacc. On leaves.
Anthostomella calami Rehm. On dead stems.
Asterina bakeri Syd. On leaves.
Asterinella calami Syd. On leaves.
Botryodiplodia calamina Sacc. On dead stem.
Curing troubles.
Cytospora calami Syd. On dead stems.
Didymosphaeria striatula Penz. et Sacc. On dead stem.
Eremothecella calamicola Syd. On leaves.
Eutypella rehmiana (P. Henn. et Nym.) v Höhnel. On dead stem.
Hypocrea melia Rehm var. *ochracea* (Pat) Rehm. On dead stem.
Lembosia microcarpa Syd. On leaves.
Linobolus ramosii Syd. On leaves.
Melanconium calami Yates. On dead rachis.
Melanconium operculatum Sacc. On dead stem.
Merrilliopeltis calami P. Henn. On dead stems.
Micropeltis vagabunda Speg. On leaves.
Nummularia fragillima Rehm. On dead stems.
Ophiochaeta bakeriana Sacc. On dead stems.
Oxydothis calami (P. Henn.) Syd
Palawania grandis (Niessl.) Syd. On dead rachis.
Phaeochora calamigena (B. et Br.) Theiss. et Syd. On leaves.
Ramosiella calami (Rac.) Syd. On leaves.
Rosellinia cocoes P. Henn. On dead stems.
Thyridaria calamincola Rehm. On dead stems.
Trematosphaeria maquilingiana Rehm. On dead stems.
Xylaria. On dead rachis.
Xylaria copelandii P. Henn. On dead stems.
Yatesula calami Syd. On leaves.
Canavalia gladiata DC., and *Canavalia ensiformis* DC. Horse beans, sword beans.
Cercospora canavaliae Syd. Leaf spot.
Didymium squamulosum (Alb. et Schw.) Fr. On decaying leaves.
Elsinoe canavaliae Rac. On dead leaves.
Gloeosporium canavaliae Syd. On dead leaves.
Physalospora guignardioides Sacc. On dead stems.
Capsicum annuum Linn. Green pepper.
Bacillus solanacearum Erw. Smith. Bacterial wilt.
Erysiphaceae. Powdery mildew.
Phomopsis capsici (Magnaghi) Sacc. On decaying fruits.
Vermicularia capsici Syd. Fruit rot.
Capsicum frutescens Linn. Chile pepper.

Vermicularia capsici Syd Fruit rot.

Carica papaya Linn. Papaya

Aspergillus periconioides Sacc. On dead leaves.

Colletotrichum papayae (P. Henn.) Syd. On dead petioles.

Didymella caricae Tassi. On dead petioles.

Diplodia caricae Sacc. On dead petioles.

Erysiphaceae. Powdery mildew.

Fusarium diversisporum Sherb. (*Fusarium heveae* P. Henn.) Fruit rot on dead bark.

Lasiodiplodia theobromae (Pat.) Griff. et Maubl. Fruit rot.

Mycosphaerella caricae Syd. Leaf spot.

Penicillium. Fruit rot.

Phytophthora faberi Maubl. Fruit rot.

Pythium debaryanum Hesse. Damping off.

Rhizoctonia. Damping off.

Rhizopus nigricans Ehr. Fruit rot.

Castilloa elastica Cerv. Castilloa rubber.

Auricularia polytricha Mtg. On dead log.

Polyporus hirsutus Pers. On dead log.

Schizophyllum commune Fr. On dead branches.

Sun Scald.

Citrus spp. Oranges, lemons, limes, pomelos.

Albino.

Chlorosis, non-parasitic.

Cyathus montagnei Tul. On dead branches.

Die-back, deficient nutrition.

Diplodia. Bark rot.

Fomes applanatus Pers. On dead branches.

Foot rot.

Ganoderma australe (Fr.) Pat. On dead branches.

Greasy spot. On leaves.

Heterochaete tenuicula (Lév.) Pat. On dead branches.

Nummularia citrincola Rehm. On dead branches.

Pseudomonas citri Hasse. Canker.

Rhizoctonia. Damping off.

Rhytidopeziza rufula (Spreng.) Bres. On dead branches.

Schizophyllum commune Fr. On dead branches.

Citrus maxima (Burm.) Merr. (*C. decumana* Linn.)

Sun Scald.

Aschersonia sclerotioides P. Henn. On coccids.

Colletotrichum gloeosporioides Penz. Wither tip.

Corticium salmonicolor B. et Br. Pink disease.

Daldinia concentrica Dicks. On dead branches.

Eutypa heteracantha Sacc. On dead branches.

Eutypella citricola Speg. On dead branches.

Gloeosporium intermedium Sacc. On injured leaves.

Gummosis.

Lasiodiplodia theobromae (Pat.) Griff. et Maubl. Fruit rot.

Lichens.
Loranthus philippensis Cham. Parasitic epiphyte.
Meliola citricola Syd. Sooty mold.
Micropeltis. Leaf speck.
Mottled leaf, non-parasitic.
Nectria episphaeria (Tode.) Fr. On dead branches.
Penicillium. Fruit rot.
Phyllosticta circumsepta Sacc. On rind of fruit.
Scaly bark.
Schizophyllum commune Fr. On dead branches.
Spiny mold, imperfect fungus.

Citrus nobilis Lour.

Crinipellis galeatus (Berk.) Pat. On dead branches.
Cytospora aberrans Sacc. On dead twigs.
Diaporthe citrincola Rehm. On dead branches.
Diplodia aurantii Catt. On dead branches.
Eutypella citricola Speg. On dead branches.
Hypoxylon atropurpureum Fr. On dead branches.
Massarina raimundoi Rehm. On dead branches.
Septobasidium michelianum (Cald.) Pat. On coccids on branches.
Traversoa dothiorelloides Sacc. et Syd. On bark.
Tryblidiella mindanaensis P. Henn. On dead branches
Tryblidiella rufula Spreng.) Sacc. On dead branches.
Valsaria citri Rehm. On dead branches.
Zignoella nobilis Rehm. On dead branches.

Cocos nucifera Linn. Coconut.

Anthostomella cocoina Syd. On dead petioles.
Capnodium footii Berk. et Desm. On dead leaves.
Chaetosphaeria eximia Sacc. On rotting petioles.
Coniosporium dentriticum Sacc. On dead spathes.
Coprinus fimbriatus B. et Br. On dead leaf bases.
Coprinus friesii var. *obscurus* Pat. On rotten spathes.
Cytospora palmicola B. et Cke. On husks.
Diplodia cococarpa Sacc. On husks.
Diplodia cococarpa var. *malaccensis* Tassi. On husks.
Diplodia epicocos Cke. On dead petioles.
Diplodia epicocos Cke. var. *minuscula* Sacc. On husks.
Elfvingia tornata (Pers.) Murr. On husks.
Eutypella cocos Ferd. et Winze. On husks.
Exosporium durum Sacc. Leaf spot.
Ganoderma amboinense (Lam.) Pat. On dead trunk.
Ganoderma incrassatum (Berk). Bres. var. *substipitata* Bres. On dead trunk.
Ganoderma tornatum (Pers.) Bres. On dead trunk.
Gloeoglossum glutinosum (Pers.) Durant. On base of living tree.
Hormodendron cladosporioides (Fr.) Sacc. On dead wood.
Lentinus strigosus Schw. On dead trunk.
Palawania cocos Syd. On dead spathes.
Peroneutypella cocoes Syd. On husks.

Pestalozzia palmarum Cke. et Grev. Leaf spot.
Phyllosticta cocophila Pass. On dead leaves.
Phytophthora faberi Maubl. Bud rot.
Polyporus williamsianus Murr. On dead trunk.
Root rot.
Rosellinia cocoes P. Henn. On dead petioles.
Schizophyllum commune Fr. On dead leaf and trunk.
Stereum crenatum (Lév.) Pat. On dead roots.
Sterility of nuts.

Coffea spp. Coffee.
Aithaloderma longisetum Syd. On dead leaves.
Cephaleuros virescens Kunze. Algal leaf spot.
Cobweb Sterile fungus.
Coniothyrium coffeae P. Henn. On dead twigs.
Corticium salmonicolor B. et Br. Pink disease.
Dictyothyriella mucosa Syd. (*Micropeltis mucosa* Syd.) Leaf speck.
Foot rot.
Hemileia vastatrix B. et Br. Rust.
Rhizoctonia. Damping off.
Sclerotium Damping off.

Colocasia sp. Dasheen.
Sclerotium. Corm rot.

Colocasia esculentum Schott. (*C. antiquorum* Schott.) Gabi.
Phytophthora colocasiae Rac. Blight.

Cucumis sativas Linn. Cucumbers.
Cercospora. Leaf spot.
Pseudoperonospora cubensis (B. et C.) Rost. Downy mildew.
Rhizoctonia. Fruit Rot.

Cucurbita maxima Duch. Calabaza, squash.
Bacillus solanacearum Erw. Smith (?) Bacterial wilt.
Erysiphaceae. Powdery mildew.
Pseudoperonospora cubensis (B. et C.) Rost. Downy mildew.

Daemonorops spp. Rattan.
Curing trouble.
Myiocopron conjunctum Syd. On leaves.
Oxydothis daemonoropis Syd. (*Merrilliopeltis daemonoropsis* Syd.) On dead parts.)
Palawania grandis (Niessl.) Syd. On dead parts.
Rosellinia lamprostoma Syd. On dead parts.
Stictis stellata Wallr. On dead parts.

Daucus carota Linn. Carrot.
Rhizoctonia. Stem rot.

Dioscorea sp. Wild.
Cercospora ubi Rac. Leaf spot.

Dioscorea alata Linn. Ubi.
Cercospora pachyderma Syd. Leaf spot.
Phoma oleraceae Sacc. On dead stems.
Uredo dioscoreae-alatae. Rac. Rust.

Dioscorea esculenta (Lour.) Burkill. (*Dioscorea fasciculata* Roxb.) Yams.
Cercospora pachyderma Syd. Leaf spot.
Ellisiodothis rehmianae Theiss. et Syd. On dead stems.
Gloeosporium macrophomoides Sacc. On dead stems.
Lasiodiplodia theobromae (Pat.) Griff. et Maubl. Storage rot.
Mycosphaerella dioscoricola Syd. Leaf spot.
Phoma oleraceae Sacc. On dead stems.
Phomopsis dioscoreae Sacc. On dead stems.
Phyllachora dioscoreae Schwein. Leaf spot.
Phyllachora rehmiana Theiss. et Syd.
Phyllosticta graffiana Sacc. On leaves.
Rhizopus nigricans Ehr. Storage rot.
Uredo dioscoreae (B. et Br.) Petch. Rust.
Dioscorea fasciculata Roxb. Tugue.
Rhizopus nigricans Ehr. Corm rot.
Diospyros discolor Willd. Mabolo.
Aecidium rhytismoideum B. et Br. Rust.
Hymenula copelandi Sacc. On dead leaves.
Meliola diospyriae Yates. Black mold.
Dolichos lablab Linn. Lablab bean.
Cercospora. Leaf spot.
Didymella lussoniensis Sacc. On dead stems.
Diplodia lablab Sacc. On dead stems.
Septoria lablabina Sacc. On leaves.
Septoria lablabis P. Henn. On leaves.
Vermicularia horridula Sacc. On dead stems.
Woroninella dolichi (Cke.) Syd. Orange galls.
Dolichos uniflorus Lam. Kulthi beans.
Didymella lussoniensis Sacc. On dead stems.
Rhizoctonia. Blight.
Vermicularia horridula Sacc. On dead stems.
Durio zibethinus Murr. Durian.
Diplodia durionis Sacc. On rotten fruits.
Placosphaeria durionis Sacc. On leaves.
Trametes persoonii Mtg. On bark.
Eugenia cumingii (Linn.) Merr. (*Eugenia jambolana* Lam.) Duhat, lumboy.
Asterina colliculosa Speg. On leaves.
Daedalea lurida Lév. On trunks.
Meliolina pulcherrima Syd. On leaves.
Ficus carica Linn. Fig.
Kuehneola fici (Cast.) Butl. Rust.
Phyllachora. (On wild figs.) Leaf spot.
Uredo fici Cast. Rust.
Glycine max (Linn.) Merr. (*G. hispida* Maxim). Soy bean, soja.
Peronospora trifoliorum de Bary. Downy mildew.
Rhizoctonia. Blight.
Sclerotium. Blight and stem rot.

Trotteria venturioides Sacc. Black mildew.
Uromyces sojae Syd. Rust.
Gossypium spp. Cotton.
Bacterium malvacearum Erw Smith. Angular leaf spot.
Kuehneola gossypii Arth. Rust.
Uredo desmium (B. et Br.) Petch. Rust.
Hevea brasiliensis (HBK) Muell.-Arg. Para rubber.
Auricularia polytricha Mtg. On dead branches.
Cladoderris dendritica Pers. On dead branches.
Eutypella heveae Yates. On dead branches
Favolus tener Lév. On dead branches.
Fomes lignosus (Kl.) Bres. Root disease.
Helminthosporium heveae Petch. Leaf spot.
Heterochaete tenuicula (Lév.) Pat. On dead branches.
Hexagona thwaitesii Berk. On dead branches.
Megalonectria pseudotrichia (Schw.) Speg. On dead trunks.
Ozonium. On dead branches.
Physiological trouble.
Phytophthora faberi Maubl. Canker and fruit rot.
Schizophyllum commune Fr. On dead branches.
Spotting of prepared plantation rubber. Saprodhytic fungi.
Trametes persoonii Mtg. On dead branches.
Tryblidiella mindanaensis P. Henn. On dead branches.
Hibiscus sabdariffa Linn. Roselle.
Phoma sabdariffae Sacc. Blight.
Ipomoea batatas Poir. Sweet potato.
Lasiodiplodia theobromae (Pat.) Griff. et Maubl. Storage rot.
Rhizopus nigricans Ehr. Storage rot.
Schizophyllum commune Fr. On rotting roots.
Sclerotium. Blight.
Lactuca sativa Linn. Lettuce.
Bremia lactucae Reg. Downy mildew.
Cercospora. Leaf spot.
Tipburn, non-parasitic.
Lansium domesticum Jack. Lansones.
Platygloea fibrosa Pat. On dead branches.
Luffa cylindrica M. Roem. Patola.
Asterina simillima Syd. On leaves.
Irene confragosa Syd. (*Meliola confragosa* Syd.) Black leaf mold.
Pseudoperonospora cubensis (B. et C.) Rost. Downy mildew.
Schizophyllum commune Fr. On dead and weakened stems.
Lycopersicum esculentum Mill. Tomato.
Bacillus solanacearum Erw.Smith. Bacterial wilt.
Erysiphaceae. Powdery mildew.
Heterodera radicicola Greef et Müller. Nematode root galls.
Pythium debaryanum Hesse. Damping off.
Rhizoctonia. Damping off.
Mangifera indica Linn. Mango.

Auricularia polytricha Mtg. On dead branches.
Cercospora mangiferae Koord. Leaf blight.
Corticium salmonicolor B. et Br. Pink disease.
Endoxyla mangiferae P. Henn. On dead wood.
Hexagona thwaitesii Berk. On dead branches.
Lentinus leucochrous L v. On dead branches.
Lentinus squarrosulus Mont. On dead branches.
Lenzites palisoti Fr. On dead branches.
Leptothyrium circumscissum Syd. On leaves.
Meliola mangiferae Earle. Sooty mold.
Microporus sanguineus (Lév.) Pat. On dead branches.
Pestalozzia funerea Desm. On dead leaves.
Pestalozzia pauciseta Sacc. Leaf blight.
Phyllachora sp. Leaf spot.
Polyporus rugulosus Lév. On dead branches.
Polyporus scruposus Fr. On dead branches.
Schizophyllum commune Fr. On dead branches.
Trametes aspera Jungh. On dead branches.
Xerotus nigrita Lév. On dead branches.

Manihot glaziovii Muell.-Arg. Ceara rubber.
Cyathus poeppigi Tul. On dead branch.
Phyllosticta manihoticola Syd. Leaf spot.
Polyporus hirsutus Pers. On dead wood.

Manihot utilissima Pohl. Cassava, camoting cahoy.
Auricularia polytricha Mtg. On dead stem.
Bacterial or Phycomycete. Soft root rot.
Cercospora henningsii Allesch. Leaf spot.
Cercospora manihotis P. Henn. Leaf spot.
Collectotrichum lussoniense Sacc. On dead branches.
Diplodia manihoti Sacc. On dead stems.
Guignardia manihoti Sacc. On dead branches.
Guignardia manihoti Sacc. var. *diminuta* Sacc. On dead branches
Phoma herbarum Westd. On dead stems.
Rhizopus nigricans Ehr. Storage rot.
Schizophyllum commune Fr. On dead stem.
Steirochaete lussoniensis Sacc. On dead branches.
Trametes persoonii Mtg. On dead stem.

Medicago sativa Linn. Alfalfa.
Cercospora medicaginis Ell. et. Ev. Leaf spot.
Sclerotium. Stem rot and wilt.

Momordica charantia Linn. Amargoso, ampalaya.
Asterina momordicae Yates. On leaves.
Dimerium tayabensis Yates. On leaves.
Pseudoperonospora cubensis (B. et C.) Rost. Downy mildew.

Morus alba Linn. Mulberry.
Aecidium mori Barcl. Rust.
Botryodiplodia anceps Sacc. et Syd. On decaying branches.
Diplodia mori West. On dead branches.

Calonectria perpusilla Sacc On dead glumes.
Cercospora. Leaf spot.
Clasterosporium punctiforme Sacc. On dead glumes.
Kuehneola fici (Cast.) Butl. var. *moricola* P. Henn. Rust.
Microporus xanthopus (Fr.) Pat On dead branches.
Phyllactinia suffulta (Reb.) Sacc. Powdery mildew.
Rhytidopeziza rufula (Spreng.) Bres. On dead branches.
Traversoa dothiorellaoides Sacc. et Syd. On decaying branches.
Valsaria insitiva (de Not.) Ces. et de Not. On dead branches.
Mucuna deeringiana Merr. (*Stizolobium deeringiana* Bort.) Velvet bean.
Cercospora stizolobii Syd. Leaf spot.
Uromyces mucunae Rabh. Rust.
Musa sapientum Linn. Banana.
Bacterial stem rot.
Diplodia erebra Sacc. On dead fruit.
Fruit blast.
Gloeosporium musarum C. et M. Fruit rot.
Lenzites tenuis Berk. On dead stems.
Macrophoma musae (Cke.) Berl. et Vogl. Leaf spot.
Mycosphaerella musae (Speg.) Syd. Leaf spot.
Plicaria bananincola Rehm. On dead stems.
Schizophyllum commune Fr. On dead stems.
Sporodesmium bakeri Syd. On dead leaves.
Musa textilis Née. Abacá.
Heart rot.
Macrophoma musae (Cke.) Berl. et Vogl. Leaf spot.
Mycosphaerella musae (Speg.) Syd. Leaf spot.
Nicotiana tabacum Linn. Tobacco.
Aspergillus candidus Speg. Mold.
Bacillus solanacearum Erw. Smith. Bacterial wilt.
Bacterial blight.
Cercospora nicotianae Ell. et Ev. Leaf spot
Chlorosis.
Curing and fermenting troubles, leaf spotting.
Fusarium. Damping off.
Heterodera radicicola Greef et Müller. Nematode root galls.
Penicillium glaucum Lk. Mold.
Phytophthora nicotianae Breda de Haan. Damping off of seedlings.
Pythium debaryanum Hesse. Damping off of seedlings.
Rhizoctonia. Damping off of seedlings.
Sclerotium. Damping off of seedlings.
Nipa fruticans Wurmb. Nipa, sasa.
Gibberidea nipae P. Henn. On dead petioles.
Ophiobolus nipae P. Henn. On dead petioles.
Rhipidocarpon javanicum (Pat.) Theiss. et Syd. On leaves.
Oryza sativa Linn. Rice.
Achlya. Water mold.
Bacterial leaf stripe.

Coniosporium oryzinum Sacc. On decaying parts.
Entyloma oryzae Syd. On dead leaves.
Haplographium chlorocephalum (Fres.) Grove. On dead glumes.
Helminthosporium. Seedling blight.
Leptosphaeria (*Leptosphaerella*) *oryzina* Sacc. On dead glumes.
Melanomma glumarum Miyake. On dead glumes
Myrothecium oryzae Sacc. On dead glumes
Oospora oryzetorum Sacc. On dying glumes.
Ophiobolus oryzinus Sacc. On decaying culms.
Phyllosticta glumarum Sacc. Glume spot.
Phyllosticta miurai K. Miyake. Leaf spot.
Piricularia oryzae Cav. Blast.
Pyrenochaeta oryzae Shirai. On dead sheaths.
Rhizoctonia. Stem rot.
Sclerotium. Stem rot.
Septoria miyake Sacc. On dead glumes.
Sordaria oryzeti Sacc. On rotting culms.
Spegazzinia ornata Sacc. On rotting parts.
Straight or sterile head.
Tip burn.
Ustilaginoidea virens (Cke.) Tak. False smut or lump smut.
Yellowing.

Pachyrrhizus erosus (Linn.) Urb. (*P. angulatus* Rich.). Sincamas.
Phakospora pachyrhizi Syd. Rust.

Pandan, screw pine. Pandanus tectorius Sol.
Anthostomella calocarpa Syd. On dead leaves.
Aulacostroma palawanense Syd. On leaves.
Diplodia fructus-pandani P. Henn. forma *foliorum* Sacc. On leaves.
Dothiorella maculans Sacc. On leaves.
Linospora pandani Rehm. On leaves.
Melanconium merrillii Syd. On dead leaves.
Neopeckia diffusa (Schw.) Sacc. var. *magnifica* Rehm. On leaves.
Pycnothyrium pandani Syd. On dead leaves.

Panicum spp. Forage crops.
Diorchidiun orientale Syd. et Butl. On leaves.
Meliola panici Earl. On leaves.
Paranectria luxurians Rehm. On *Meliola.*
Periconia philippinensis Sacc. On leaves.
Phyllachora seriata Theiss. et Syd. On leaves.
Ustilago manilensis Syd. Smut.
Ustilago panici miliacei (Pers.) Wint. Smut.

Panicum amplexicaule Rudge.
Balansia paspali P. Henn. On inflorescence.

Panicum auritum Presl.
Ustilaginoidea ochracea? P. Henn. False smut.

Panicum carinatum Presl.
Balansia claviceps Speg. On inflorescence.
Balansia thanatophora (Lév.) v Höhnel. On inflorescence.

Phyllachora congruens Rehm. Leaf spot.
Panicum flavidum Retz.
Uromyces linearis B. et Br. Rust.
Panicum nodosum Kunth.
Balansia claviceps Speg. On inflorescence.
Panicum palmaefolium Poir.
Meliola panicicola Syd. On leaves.
Phyllachora graminis Pers. Fuckel. Leaf spot.
Panicum patens Linn.
Phyllachora stenospora (B. et Br.) Sacc. Leaf spot.
Panicum repens Linn.
Uromyces linearis B. et Br. Rust.
Panicum reptans Linn.
Uromyces linearis B. et Br. Rust.
Persea americana Mill. (*Persea gratissima* Gaertn.) Avocado.
Pinnotes capillacea Sacc. On branches.
Phaseolus spp. Beans.
Cercospora lussoniensis Sacc. Leaf spot
Erysiphaceae. Powdery mildew.
Phyllachora phaseolina Syd. Leaf spot.
Pseudomonas phaseoli Erw. Smith. Bacterial blight.
Rhizoctonia. Blight.
Sclerotium. Blight.
Sooty mold.
Uredo vignae Bres. Rust.
Uromyces appendiculatus (Pers.) Lk. Rust.
Phaseolus lunatus Linn.
Cladosporium herbarum (Pers) Lk. On dead pods.
Diplodia phaseolina Sacc. On dead pods.
Rhizoctonia. Blight.
Phaseolus vulgaris Linn.
Asteroma phaseoli Brun. On unhealthy pods.
Diplodia phaseolina Sacc. On dead pods.
Piper betle Linn. Icmo, betel pepper.
Oospora perpusilla Sacc. On dead leaves.
Pisum sativum Linn. Pea.
Erysiphaceae. Powdery mildew.
Pithecolobium dulce (Roxb.) Benth. Camanchiles.
Megalonectria pseudotrichia (Schw.) Speg. On dead twigs.
Trametes meyenii Kl. On decaying wood.
Xylaria sp. probably *Xylaria myrosum* Mont. On dead branches.
Psidium guajava Linn. Guava.
Aithaloderma clavatisporum Syd. Black mold.
Acanthostigma vile Syd. On dead leaves
Aschersonia paraensis P. Henn. On coccids on leaves.
Diatrypella psidii Syd. On dead twigs.
Pezizella ombrophilacea Rehm. On dead leaves.
Physalacria orinocensis Pat. et Gaett. On dead wood.

Polyporus xanthopus Fr. On dead branches.
Psophocarpus tetragonolobus DC. Winged bean, calamismis.
Woroninella psophocarpi Rac. Orange galls.
Raphanus sativus Linn. Radish.
Bacillus carotovorus Jones. Soft rot.
Ricinus communis Linn. Castor-oil plant.
Bacillus solanacearum Erw. Smith. Bacterial wilt.
Botryodiplodia curta Sacc. On dead stems.
Cercosporina ricinella (Sacc. et Berl.) Speg.
Diplodia ricinicola Sacc. On dead stems.
Gloeosporium merrillii Syd. On dead stems.
Haplosporella manilensis Sacc. On dead stems.
Phomopsis ricinella Sacc. On dead stems.
Vermicularia bakerii Syd. On dead stems.
Rubus spp. Raspberries.
Cephaleuros sp. Parasitic stem algae.
Hamasporaacutissima Syd. On leaves.
Rhizoctonia. Stem rot.
Saccharum officinarum Linn. Sugar cane.
Aeginetia indica Linn. (Broom rape.) Root parasite.
Apiospora camptospora Penz. et Sacc. On dead leaves.
Bakerophoma sacchari Diedicke. Leaf spot.
Cercospora kopkei Kr. Leaf spot.
Colletotrichum falcatum Went. Red rot.
Coniosporium extremorum Syd. On dead stems.
Coniosporium vinosum (B. et C.) Sacc. On dead stems.
Dictyophora phalloidea Desvaux. Root disease.
Dry sooty rot.
Haplosporella melanconioides Sacc. forma. On dead stems.
Heterodera radicicola Greef et Müller. Nematode root galls.
Lasiodiplodia theobromae (Pat.) Griff. et Maubl.
Marasmius. Stem rot.
Marasmius plicatus Wakk. Stem rot.
Melanconium lineolatum Sacc. On dead leaves.
Melanconium sacchari Massee. Rind disease.
Meliola arundinis Pat. Sooty mold.
Phyllachora sacchari P. Henn. Leaf spot.
Puccinia kuehnii (Krueg.) Butl. (*Uredo kuehnii* Krueg.) Wakk. et Went). Rust.
Rhizoctonia. Blight.
Schizophyllum commune Fr. On dead stems.
Sclerotium. Stem rot.
Sereh disease.
Stem rot, bacterial.
Ustilago sacchari Rabh. Smut.
Yellow stripe
Saccharum spontaneum Linn. Wild sugar cane.
Haplosporella melanconioides Sacc. On dead stems.

Melanconium sacchari Massee. Rind disease.
Phyllachora sacchari-spontanei Syd. Leaf spot.
Sclerospora. Leaf shredding.
Ustilago sacchari Rabh. Smut.
Sandoricum koetjape (Burm. f.) Merr. (*Sandoricum indicum* Cav.) Santol.
Aithaloderma clavatispovum Syd. Black mold on leaves.
Meliola sandorici Rehm. Black mold on leaves.
Sesamum orientale Linn. (*Sesamum indicum* Linn.) Sesame, linga.
Cercospora sesami A. Zimm. Leaf spot.
Cyathus poeppigi Tul. On weakened pods.
Erysiphaceae. Powdery mildew.
Gloeosporium macrophomoides Sacc. On dead stems.
Helminthosporium sesameum Sacc. On dead stems.
Phoma sesamina Sacc. On dead stems.
Vermicularia sesamina Sacc. On dead stems.
Setaria italica Beauv. Millet.
Uromyces setarie-italicae (Diet.) Yoshino. Rust.
Solanum melongena Linn. Eggplant.
Bacillus solanacearum Erw. Smith. Bacterial wilt.
Diplodina degenerans Diedicke. On dead fruits.
Gloeosporium melongenae Sacc. Fruit rot.
Phoma solanophila Oud. On rotting fruits.
Phyllosticta hortorum Speg. Leaf spot and fruit rot.
Sarcinella raimundoi Sacc. On dying leaves.
Solanum tuberosum Linn. Potato.
Bacillus phytophthorus Appel. Bacterial wilt.
Bacillus solanacearum Erw. Smith. Black leg, or potato stem rot.
Phytophthora infestans (Mont.) de Bary. Blight.
Tamarindus indica Linn. Tamarind.
Daldinia eschscholzii (Ehrenb.) Rehm. On dead parts.
Diplodia tamarindica Sacc. On dead parts.
Duportella velutina Pat. On dead parts.
Guepinia spathularia (Schw.) Fr. On dead parts.
Hexagona thwaitesii Berk. On dead parts.
Hydnum insulare Pat. On dead parts.
Meliola tamarindi Syd. Black mold on leaves.
Nummularia anthracina (Joeq.) Fr. On dead parts.
Schizophyllum commune Fr. On dead parts.
Xylaria clavata (Scop.) Schrank. On dead parts.
Theobroma cacao Linn. Cacao.
Aspergillus delacroixii Sacc. et Syd. On dead fruits.
Auricularia mesenterica Fr. On dead branches.
Auricularia polytricha Mtg. On dead branches.
Botryosphaeria minuscula Sacc. On decaying branches.
Cyphella hostii P. Henn. On dead branches.
Die-back.
Dry sooty rot.
Fusarium theobromae App. et Strunk. On decaying fruits.

Lasiodiplodia theobromae (Pat.) Griff. et Maubl.
Lichens.
Mycogone cervina Ditm. var. *theobromae* Sacc. On decaying fruit.
Nectria bainii Massee var. *hypoleuca* Sacc. On decaying fruits.
Nectria discophora Mont. On dead branches.
Oospora candidula Sacc. On decaying fruits.
Ophionectria theobromae (Pat.) Duss. On dead branches.
Physalospora affinis Sacc. On decaying fruit.
Phytophthora fabieri Maubl. Fruit rot and canker.
Polyporus rugulosus Lév. On dead branches.
Polystictus cryptomeniae P. Henn. On dead branches.
Xerotus nigritus Lév. On dead branches.
Vigna spp. Cowpeas.
Cercospora. Leaf spot.
Erysiphaceae. Powdery mildew.
Fusarium. Curly top.
Phoma bakeriana Sacc. On dead pods.
Rhizoctonia. Blight.
Uredo vignae Bres. Rust.
Voandezia subterranea Thou. African peanut.
Rhizoctonia. Blight.
Sclerotium. Blight and pod rot.
Xanthosoma sagittifolium Schott. Yautia.
Sclerotium. Corm rot.
Vermicularia xanthosomatis Sacc. Leaf blight.
Zea mays Linn. Corn, maize.
Acerbia maydis Rehm. On dead stems.
Aspergillus. Kernel mold.
Auricularia tenuis Lév. On dead leaves.
Broomella zeae Rehm. On dead stems.
Clasterosporium maydicum Sacc. On dead leaves.
Diplodia zeae (Schw.) Lév. Dry sooty rot.
Dry rot, sterile fungus.
Fusarium. Blast of kernels.
Helminthosporium curvulum Sacc. Tasfel mold.
Helminthosporium inconspicuum. Cke. et Ell. Leaf blight.
Leptosphaeria orthogramma (B. et Br.) Sacc. On dead stems.
Physalospora linearis Sacc. On dead stems.
Schizophyllum commune Fr. On dead leaves.
Sclerospora maydis (Rac.) Butl. Downy mildew.
Stenocarpella zeae Syd. On dead stems.
Ustilago zeae (Beckm.) Ung. Smut.
Yellowing.

MAPS

SECOND SUPPLEMENT TO THE LIST OF THE LOWER FUNGI OF THE PHILIPPINE ISLANDS

A BIBLIOGRAPHIC LIST CHRONOLOGICALLY ARRANGED, AND WITH LOCALITIES AND HOSTS

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